Work Order ID 54218

December 3, 2009 12:38:29 PM

Item ID:

D3183-044

Revision ID:

C1 Bracket Assembly

Item Name: **Start Date:**

12/03/09

Required Date: 12/08/09

Start Qty: 4.00 Req'd Qty: 4.00

Reference:

Approvals:

Sequence ID/

Draw Nbr

Work Center ID

QC:

Process Plan:

Date:

Date:

SPC (Y/N):

Accept

Tooling:

0.00

0.00

0.00

0.00

Set Up/

Run Hours

Number

09/12/05

Draw

Cust Item ID:

Customer:

Rev.

Date:

Date:

Draw

Plan Code

Accept

Qty

Reject Qty

Run

Setup Start

Stop

Start

Stop

Reject Number

Insp. Stamp

Page 1

D3183

Rev C1

Bandsaw

Jeaspa Bandsaw

BAND SAW

Operation

Revision Nbr

Description

Memo

Cut blanks: (1.500" x 2.250") 5.500" long

110

HAAS 1

HAAS CNC vertical machine #1

HAAS CNC VERTICAL MACHINING #1

Memo

1-Machine D3183-4 as per Folio FA322 and Dwg D3183-Ildentify as D3183-

4: 2-Deburn :3-Scribe batch number

QC2- Inspect parts off machine FAI/FAIB

0.00

A.A 09/12/05

09/12/05

2

2

120

QC

Quality Control

Memo

0.00

W/O: WORK ORDER CHANGES							ŗ
DATE	STEP	P PROCEDURE CHANGE		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							t .
					,		
				1			L

Part No: D3183-044 PAR #: ____ Fault Category: Muchical forts NCR: (Ves) No DQA: ____ Date: 05:12:11

QA: N/C Closed:

Date: 08/2-11

Resolution: Scupe Disposition: Scrap **WORK ORDER NON-CONFORMANCE (NCR)** NCR: 54218 **Corrective Action** Section B **Description of NC** Verification **Approval Approval DATE** STEP Sign & **Action Description** Initial. Section A Section C QC Inspector Chief Ena Chief Eng Chief Eng Date scrap and 2 part scrap -> I have a drill broken inside -> I have half of the .290 rad missing C.C. lenth of tool, wrongtooks, setupt LYLOA

Work Order ID 54218

December 3, 2009 12:38:29 PM

Item ID:

D3183-044

Revision ID:

C1

Bracket Assembly Item Name:

Start Date:

12/03/09

Start Qty: 4.00

Required Date: 12/08/09

Req'd Qty: 4.00



Accept



Setup Start



Stop

Reference:

Process Plan: Approvals:

QC:

Date: Date: **Tooling:**

SPC (Y/N):

Date:

Date:

Draw

Rev.

Plan

Code

Cust Item ID:

Customer:

Draw

Number

Run

Reject

Qty

Start



Stop

Reject

Number Stamp

Insp.

Sequence ID/ Work Center ID

130

Quality Control

Operation **Description**

QC8- Inspect parts - second check

Memo

Set Up/ **Run Hours**

0.00

0.00

0.00

0.00 and ogliatio

Accept

Qty

140

Small Fab

Small Fab

Small Fab

Memo

Memo

Assemble D3183-043 as per Dwg D3183.

150

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Dart Aerospace Ltd

	•								•
W/O:			WC	RK ORDER CHAN	GES				•
DATE	STEP	PRO	PROCEDURE CHANGE				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQA	•	_ Date: _	
	Re	solution:	Disposition	n:	QA: N/C C	losed:		Date: _	
NCR:			WORK ORDI	ER NON-CONFORM	IANCE (NC	R)			
DATE	STEP	Description of NC			ection B	Verifica	Verification Appro		al Approval
	JULI	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		n C	Chief Eng	QC Inspector
							<u>.</u>		
. *									
	1 1			•	I	ı		1	ı

Work Order ID 54218

December 3, 2009 12:38:30 PM

Item ID:

D3183-044

Revision ID:

C1

Item Name: Bracket Assembly

Start Date:

12/03/09

Start Qty: 4.00 Required Date: 12/08/09

Req'd Qty: 4.00

Operation

Description

Reference:

Approvals:

Process Plan:

QC:

Date:

Date:

SPC (Y/N):

Set Up/ **Run Hours**

0.00

0.00

Tooling:

Identify as per dwg & Stock Location:

Packaging

Sequence ID/

Work Center ID

160

Packaging

170

Memo

Memo

QC21- Final Inspection - Work Order Release

Quality Control

Accept



Setup Start

Stop



Cust Item ID:

Date:

Date:

Customer:

Run

Start



Stop

Draw Number

Draw Rev.

Plan Code Accept Qty

Reject Qty

Reject

Insp. Stamp

09/12/117 W. 81.12.11

0.00

0.00

Dart Aerospace Ltd

W/O:	-		WC	RK ORDER CHANG	ES			· · · · · · · · · · · · · · · · · · ·	
DATE STEP P			CEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		,							
Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Yes	s No DQ	A:	_ Date: _	
	R	esolution:	Disposition	n:	_ QA: N/C	Closed:		Date:	
NCR:		V	ORK ORDI	ER NON-CONFORMA	ANCE (NC	R)			
DATE	STEP	Description of NC					Approval	Approval	
DAIL		Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat		ion C	Chief Eng	QC Inspector
· -									
									·
٠.					1				

Picklist Print

December 3, 2009 12:38:28 PM

Work Order ID: 54218

Parent Item:

D3183-044RevC1

Parent Item Name: Bracket Assembly

Comments:



Start Date: 12/03/09

Start Qty: 4.00

Required Date: 12/08/09

Required Qty: 4.00

Component Item ID/ Item Name

Replacement Mfg/ Item ID

Purch

Primary Item Location

Last Location Route Seq ID Unit of Measure

Qty on Hand

Remaining Qty To Pick Qty Issued Date Issued

Status

Page 1

D3121-21RevE

Manufactured

No

140

Each

71.0000

8.0000

Bolt	

Warehouse	Loc Qtv	Loc Code
Location		i
Main Warehouse		
ST	71	
46032	5	•
50096	10	
52518	56	

100

D3183-045RevC1

Manufactured

No

Each

148.0000 8.0000

Bearing Assembly

Warehouse	Loc Oty	Loc Code
Location		
Main Warehouse		
ST	148	
46393	3	
51560	2	•
52209	143	

M174B1.500X02.250

Purchased

No

143 140

15.5406 1.9297



17-4 SS Bar 1.50 X2.250

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
MAT	15.5406	
108309	0.82	
111899	14.7206	

Dart Aerospace Ltd

	-									
W/O:		A Company of the Comp	٧	VORK ORDER CHANG	ES					,
DATE	STEP	PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Ca	itegory:	NCR:	Yes N	lo DQ /	A:	Date:	
		olution:								
NCR:		W	ORK OR	DER NON-CONFORMA	ANCE (NCR)				
DATE	STEP	Description of NC	of NC Corrective Action			Section B Ver			Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti		Chief Eng	QC Inspector
					-					
						•				
		<u> </u>								

DART AEROSPACE LTD	Work Order:	54218
Description: Bracket	Part Number:	D3183-4
Inspection Dwg: D3183 Rev: C1		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

		I HIST AITHOR			, po	
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
R0.190	+/-0.030	R 0.190	· /			
R0.063	+/-0.010	RO.063	~			
9.A 0.188 0.182	+/-0.010	0.183	-			
0.070	+/-0.010	0.070	V			
0.100	+/-0.010	0.100	V			
Ø0.201 x 0.100	+/-0.010	Ø 0.200x0.00	- - -			
ba 0.183 0.182	+/-0.010	0.181	V			
5.32	+/-0.030	5.320				
5.036	+/-0.010	5.036	~			
2.120	+/-0.010	2.119	~			
1.290	+/-0.010	1.290	<u> </u>		_	
0.365	+/-0.010	0,365				
0.218	+/-0.010	0.214	V			
1.030	+/-0.010	1.030	<u></u>			
1.90	+/-0.030	1.888	~			
1.012	+/-0.010	1.010	レ			
Ø0.201 x 0.100	+/-0.010	Ø 0.201 x0.100	V			
0.786	+/-0.010	0.783	1			
Ø0.392	+0.002/-0.000	Ø 0.393	$\overline{}$			
R0.19	+/-0.030	R 0,190				
3.954	+/-0.010	3.954	V			
0.162	+/-0.010	0.161	~			
R0.19	+/-0.030	RO.190	レ			
R0.25	+/-0.030	80.250	- V			
4.26	+/-0.030	4.261	/			
2.800 Calculated dimension	+/-0.030	2.825	~			
0.162	+/-0.010	0.162	レ			
0:615	+/-0.010	-0-617-				
0.435	+/-0.010	0.435	✓			
0.200	+/-0.010	0.200	レ			
0.381	+/-0.010	0.383	V			
0.032	+/-0.010	0.032	<u> </u>			

Measured by: H.A	Audited by:	Prototype Approval:	N/A
Date: 09/12/05	Date: 09/12/10	Date:	N/A

Approved



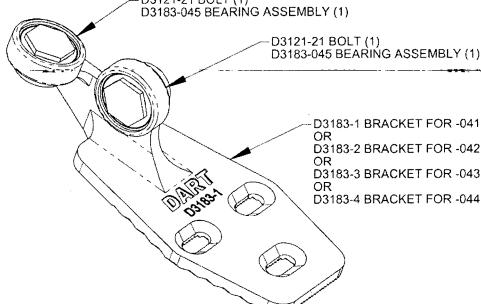


DESIGN	4	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECK	ED #	APPROVED	DRAWING NO.	REV. C
04.02.17)2.17	BRACKET ASSEMBLY	SCALE 1:1
Α	0:	3.01.24	NEW ISSUE	
В	0:	3.06.17	REMOVE BEARING; 1.012 WS 0.8	182



04.02.17 BRACKET ASSEMBLY		BRACKET ASSEMBLY	1:	
	Α	03.01.24	NEW ISSUE	
	В	03.06.17	REMOVE BEARING; 1.012 WS 0.882	
	С	,04.02.17	ADD -045/-9; 0.182 WAS 0.431	
	C t	44 04.11.09	0.830 WAS C.850	

D3121-21 BOLT (1) D3183-045 BEARING ASSEMBLY (1)



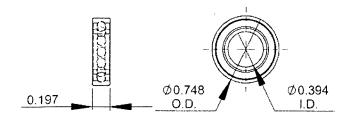
D3183-1 BRACKET FOR -041 (SHOWN)

D3183-2 BRACKET FOR -042 (OPPOSITE) OR

D3183-3 BRACKET FOR -043 (SIMILAR)

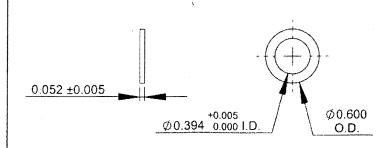
D3183-4 BRACKET FOR -044 (SIMILAR)

D3183-041 BRACKET ASSEMBLY (SHOWN) D3183-042 BRACKET ASSEMBLY (OPPOSITE) D3183-043 BRACKET ASSEMBLY (SIMILAR) D3183-044 BRACKET ASSEMBLY (SIMILAR)



D3183-5 BEARING: SPECIFICATION CONTROL DRAWING

- 1) SINGLE ROW, DEEP GROOVE, CONRAD TYPE, SHIELDED
 2) POSSIBLE SUPPLIER: NSK P/N 6800ZZ
- 3) ALL DIMENSIONS ARE IN INCHES

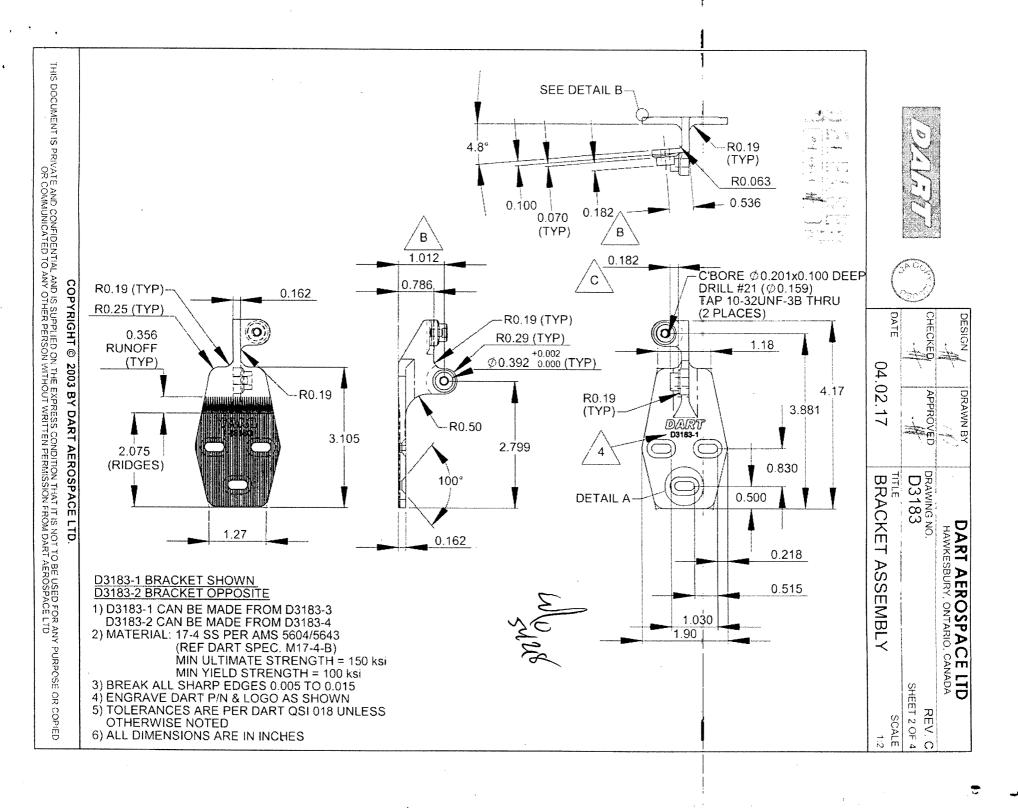


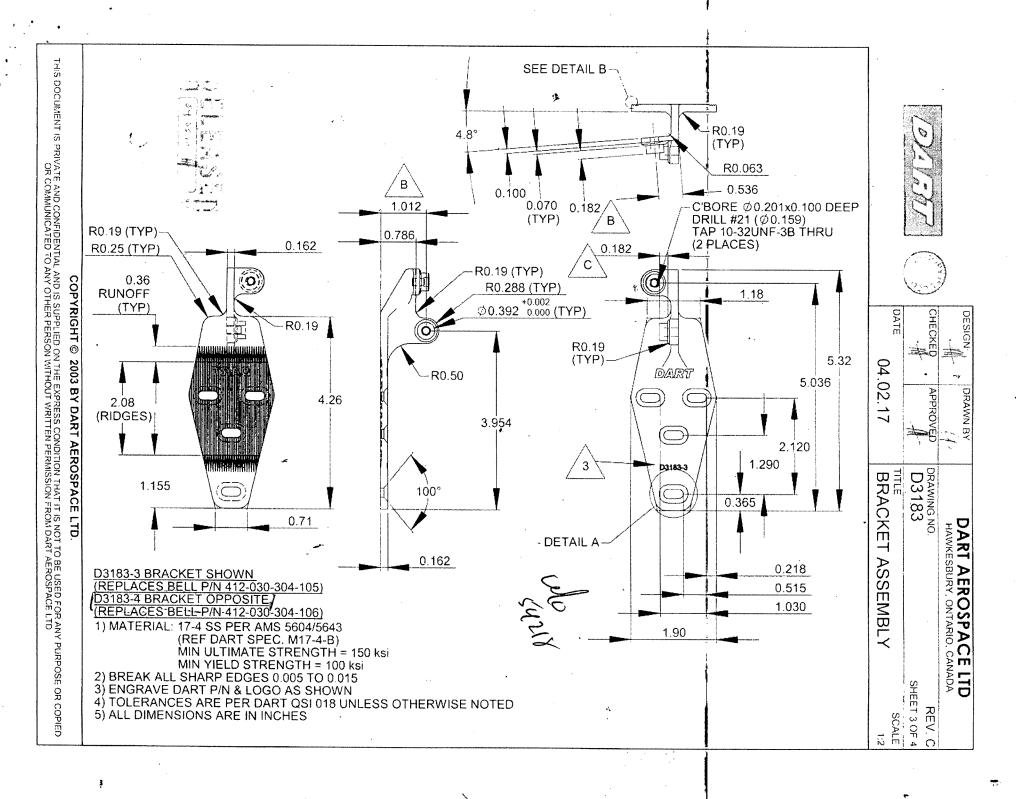
D3183-7 WASHER

- 1) MATERIAL: AISI 303 ROUND BAR (M303R) ANNEALED
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES

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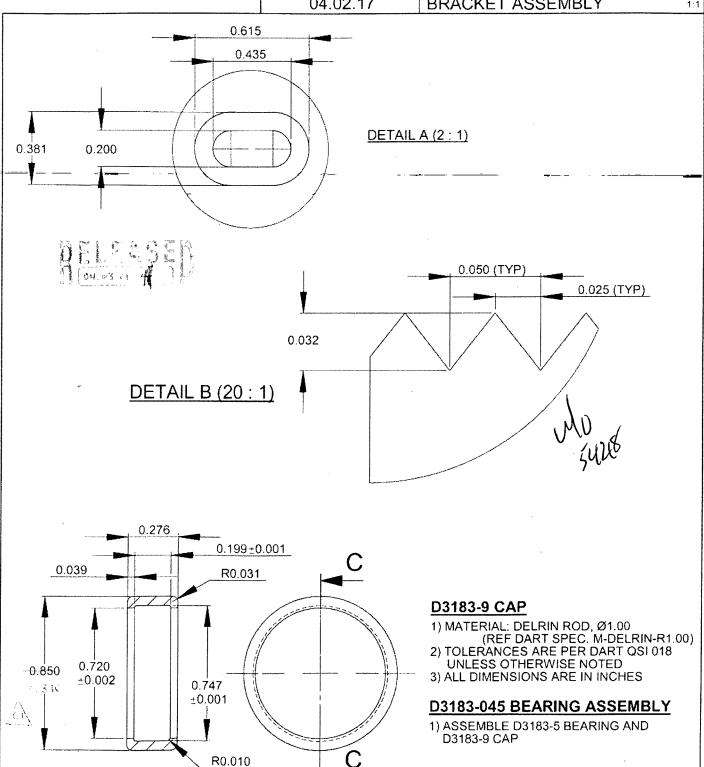






SECTION C-C SCALE 2:1

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO.	REV. C
-#	1	D3183	SHEET 4 OF 4
DATE	200-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	TITLE	SCALE
04.02.17		BRACKET ASSEMBLY	1:1



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